

FIGURE 1

5'-AACTGGACAGCACAGACTTCACCA(G)GCACCATCAAGCTGCTGAATGAA
AATTCATATGTCCCTCGTGAG-3' [SEQ. ID. NO. 1]

3'-CTTTGACCTGTCGTGTCTGAAGTGGT(C)CGTGGTAGTTCGACGACTTACT
TTTAAGTATACAGGGAGCACTC-5' [SEQ. ID. NO. 2]

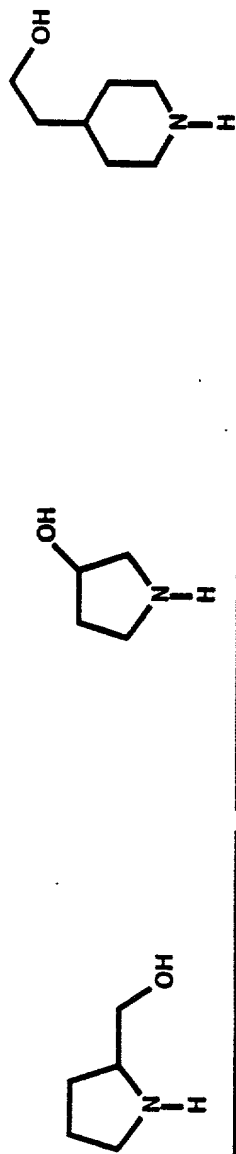
5'-CTGAAGAGAAAGTTGTCGGAGAACTGGACAGCACAGACTTCACCA(G)G
CACCATCAAGCTGCTGAA-3' [SEQ. ID. NO. 3]

3'-ACAACTCTTTCAACAGCCTCTTTGACCTGTCGTGTCTGAAGTGGT(C)CGT
GGTAGTTCGACGACTT-5' [SEQ ID. NO. 4]

5'-TGAAGAGAAAGTTGTCGGAGAACTGGACAGCACAGACTTCACA(G)GCA
CCATCAAGCTGCTGAATG-3' [SEQ. ID. NO. 5]

3'-ACAACTCTTTCAACAGCCTCTTTGACCTGTCGTGTCTGAAGTGGT(C)CGT
GGTAGTTCGACGACTTAC-5' [SEQ. ID.NO. 6] _

FIGURE 2



A*	G*	C*	T*	A*	G*	C*	T*	A*	G*	C*	T*
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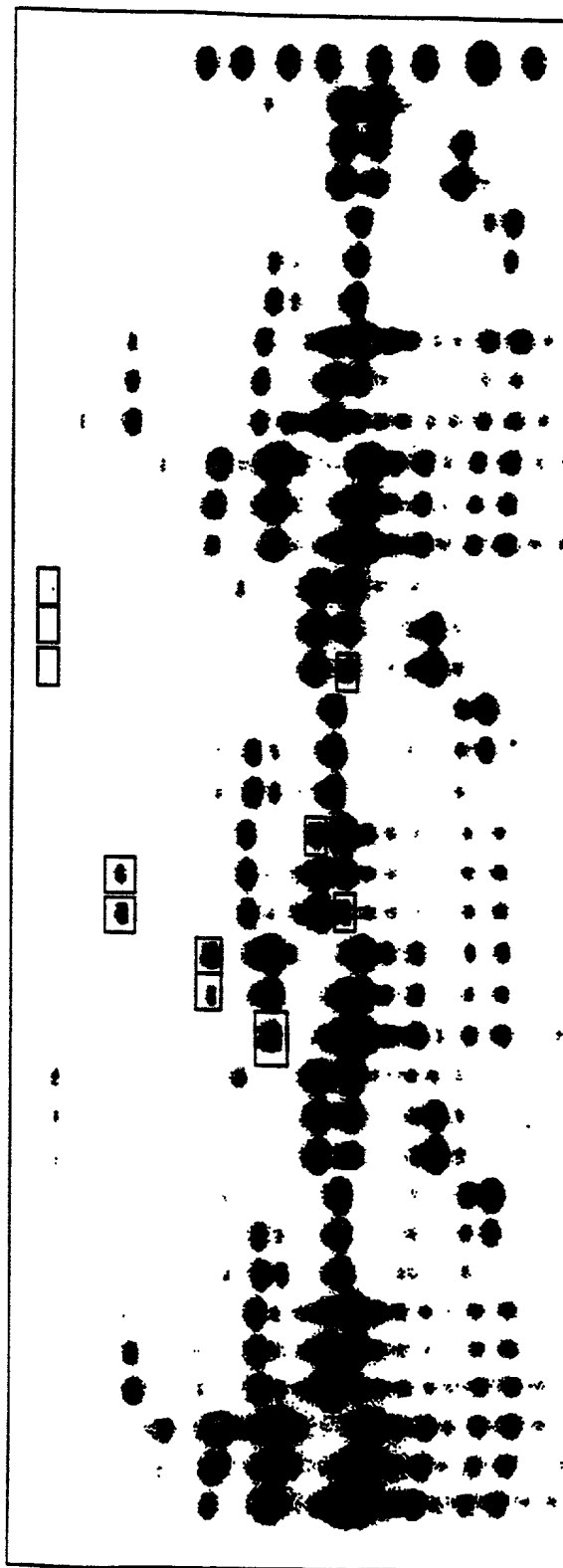
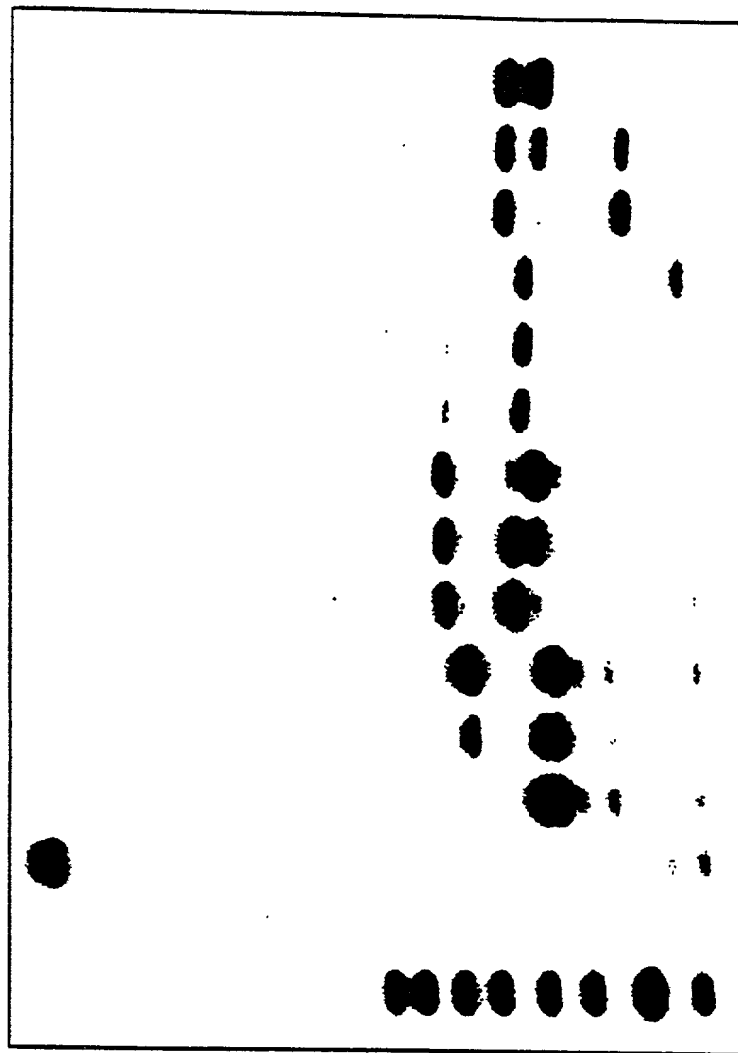
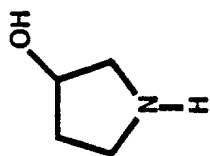


FIGURE 3

dNTPs 7-NO₂-C₇-dA 7-NO₂-C₇-dG 5-OH-dC 5-OH-dU



1.46 M



98 °C
1 hr

FIGURE 4

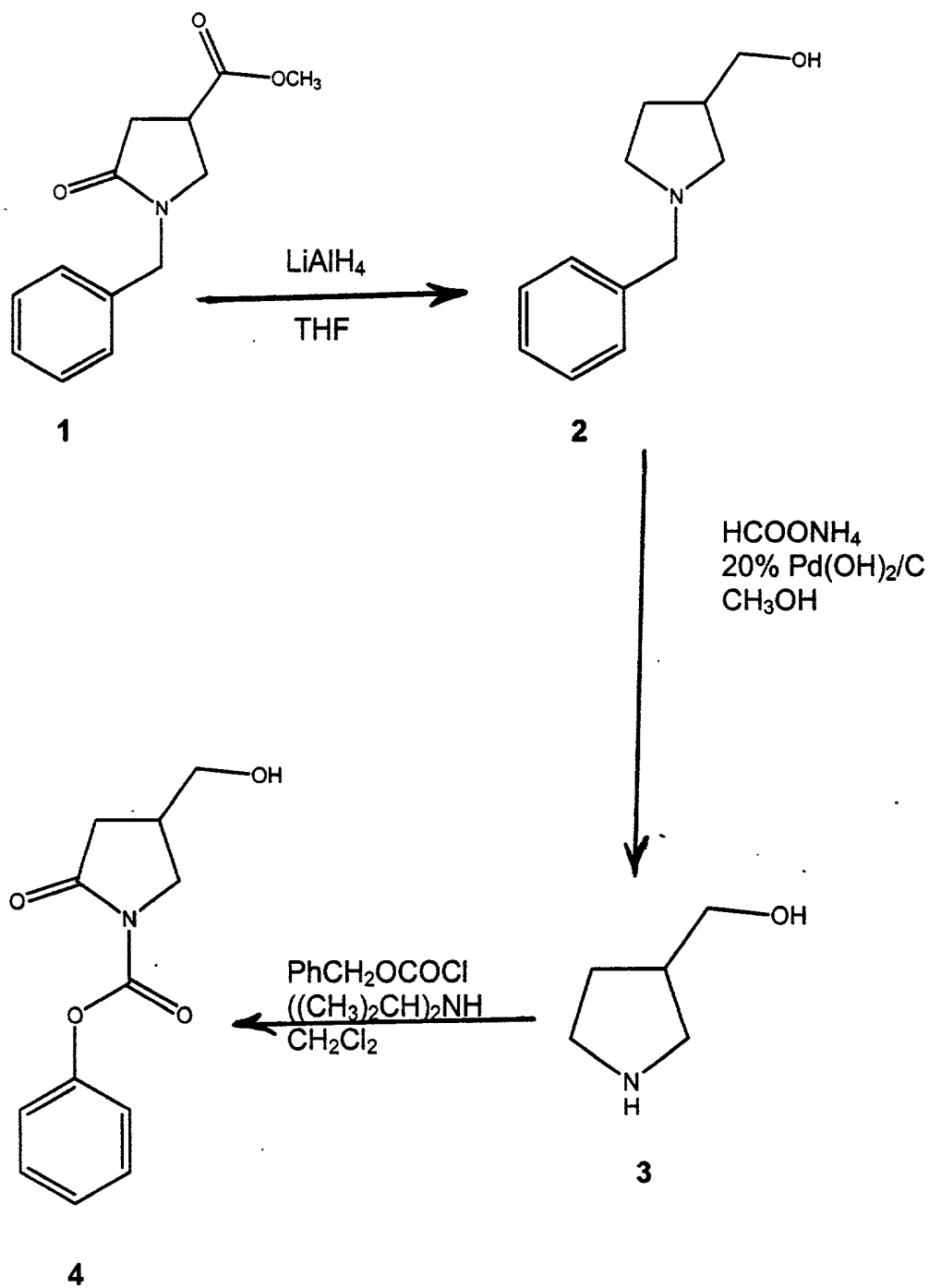
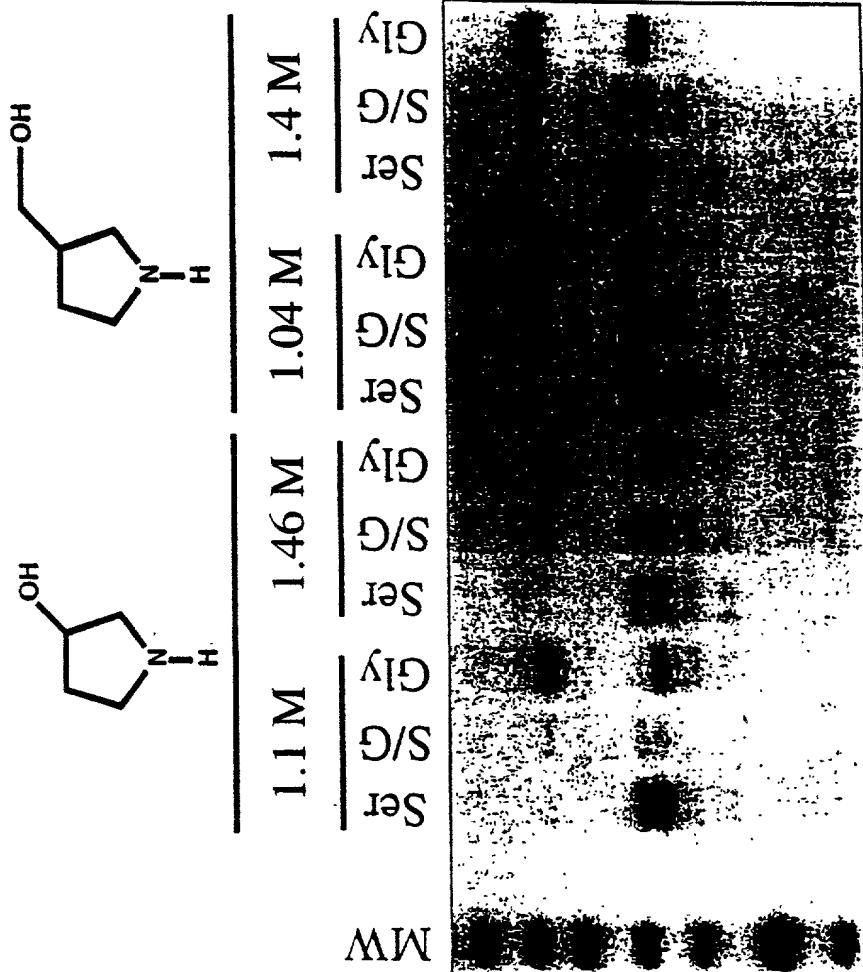


FIGURE 5



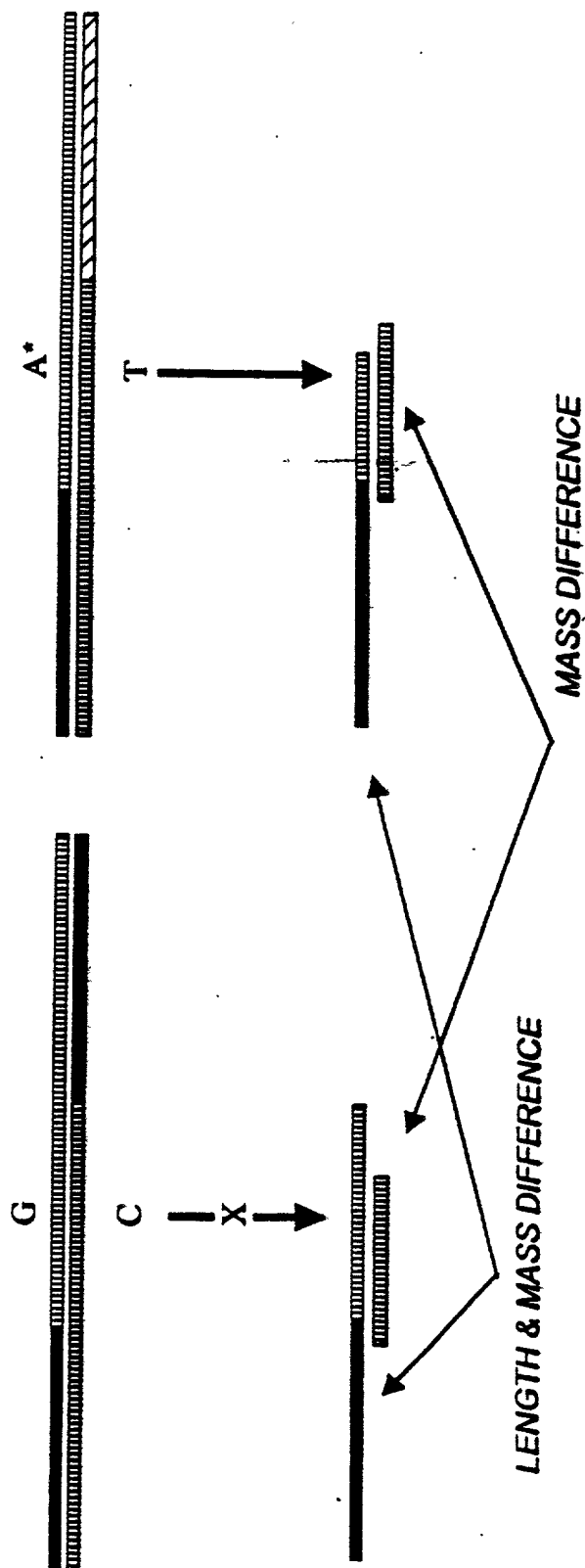
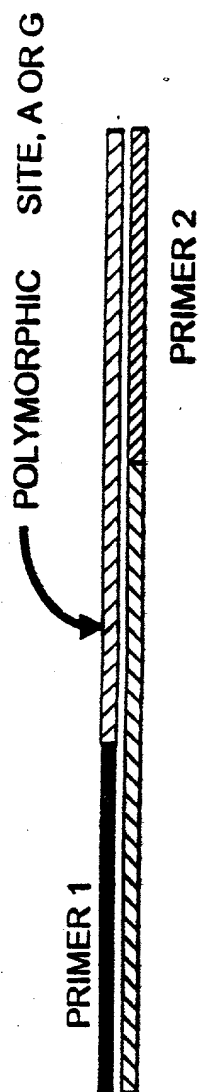


FIGURE 6

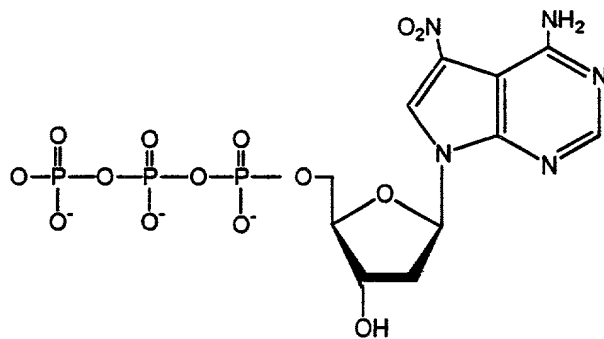
FIGURE 7A

5'-GAAACTGGACAGCACAGACTTCACCAGCACCATCAAGCTGCTGAATGAA
 3'-CTTTGACCTGTCGTGTCTGAAGTGGTCGTGGTAGTTCGACGACTTACTTT

A G
 vs
 T C

AATTCATATGTCCCTCGTGAGGCTGGATCTCAA-3' [SEQ. ID. NO. 7]
 TAAGTATACAGGGAGCACTCCGACCTAGAGTT-5' [SEQ. ID. NO. 8]

AmpliTaq Gold	0.1 unit/ml
DA*TP (modified A)	0.2 mM
dCTP, dGTP, dTTP	0.2 mM



DA*TP

FIGURE 7B

	LENGTH	MW	Δ MW
5'- <u>GAAACTGGACAGCAC</u> <u>AGACTTCACC</u> [SEQ. ID. NO. 9]	25nt	8057	948 Da
or			
5'- <u>GAAACTGGACAGCAC</u> <u>AGACTTCACCGGC</u> [SEQ. ID. NO. 10]	28nt	9005	
<u>GGGAGCACTCCGACC</u> <u>TAGAGTT</u> -5' [SEQ. ID. NO. 11]	22nt	7189	
CCTGTCGTGTCTG-5' [SEQ. ID. NO. 12]	13nt	4441	
GTGGTCGTGGT-5' [SEQ. ID. NO. 13]	11nt	3927	15 Da
or			
GTGGCCGTGGT-5' [SEQ. ID. NO. 14]	11nt	3912	
5'-TGTCCTCGTG [SEQ. ID. NO. 15]	11nt	3807	

20250505

FIGURE 8

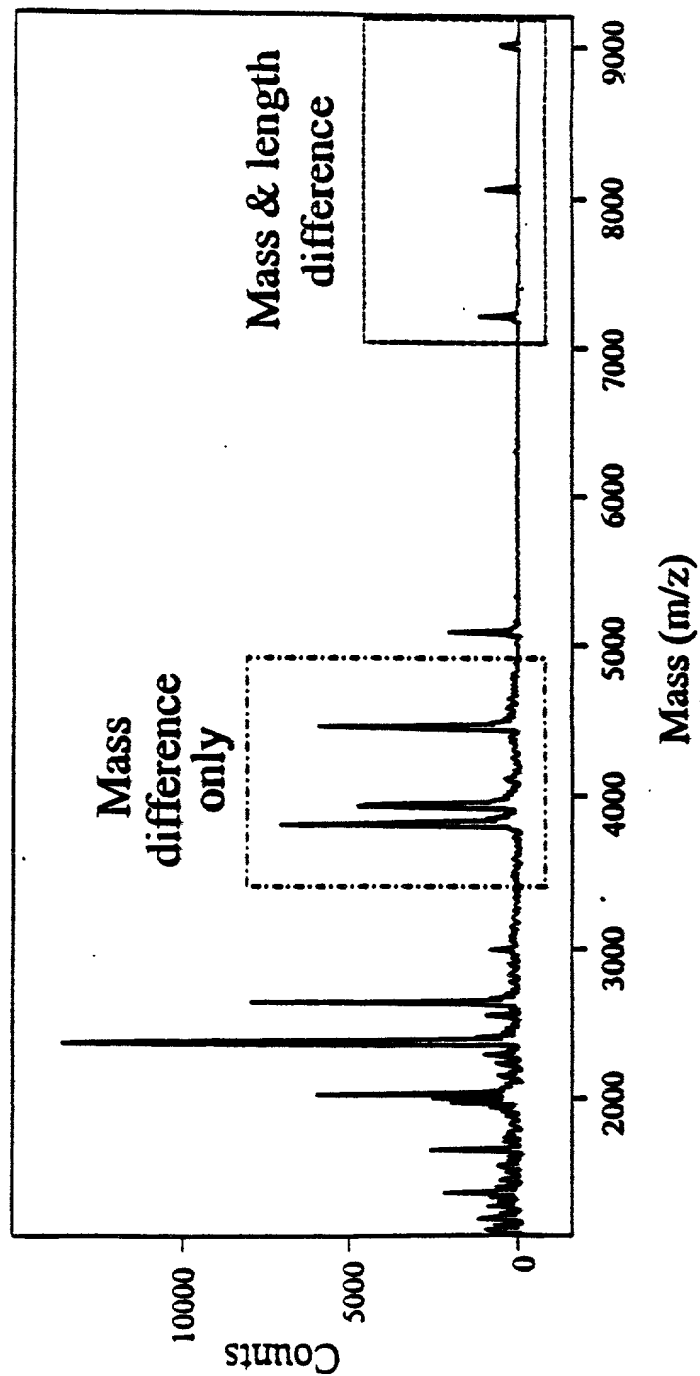


FIGURE 9

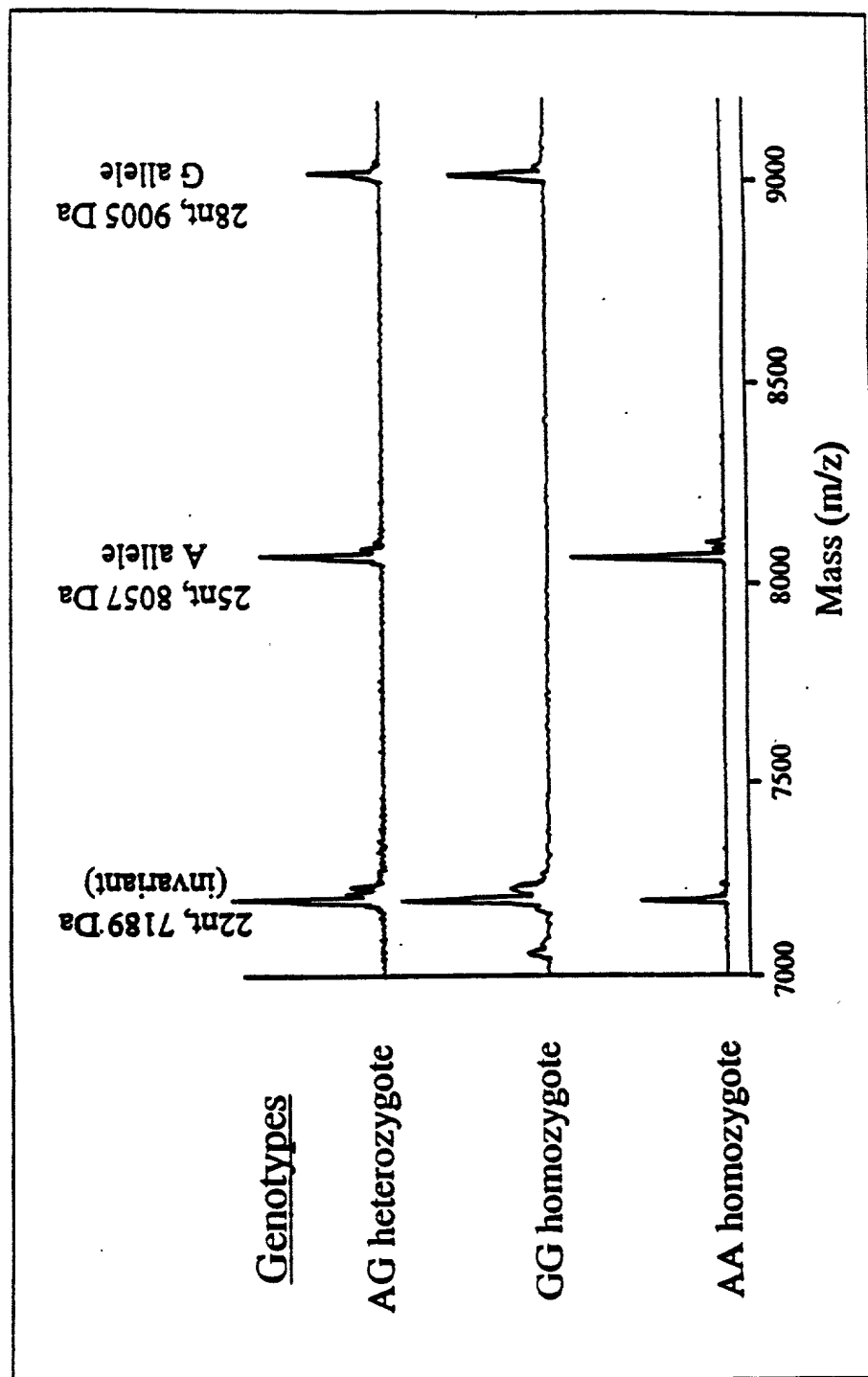


FIGURE 10A

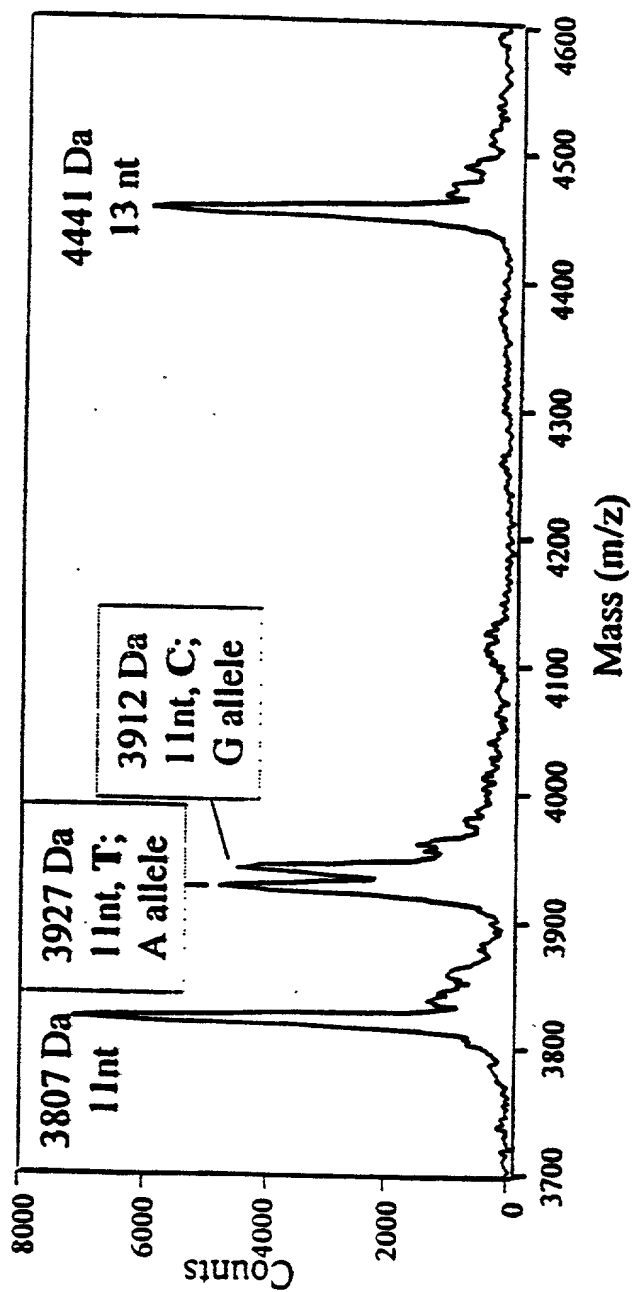


FIGURE 10B

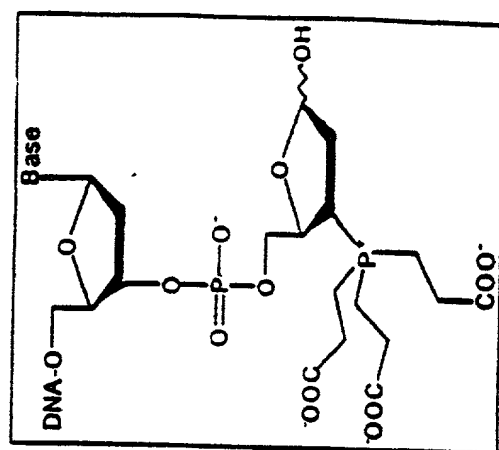


FIGURE 11

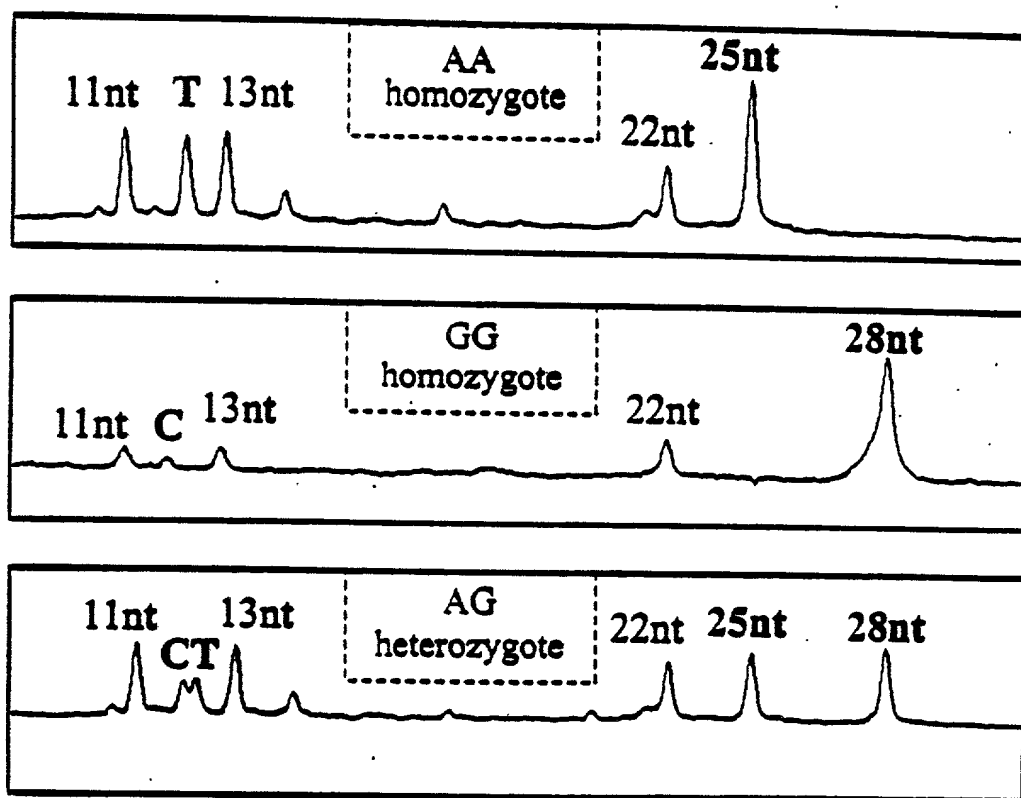


FIGURE 12

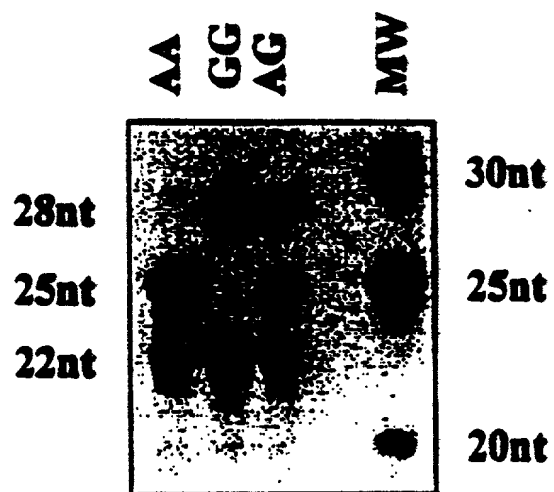


FIGURE 13

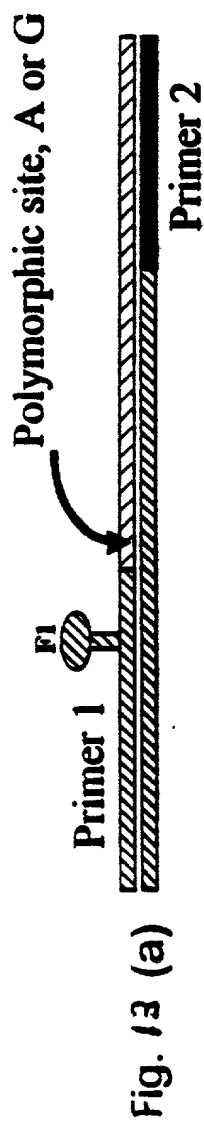


Fig. 13 (a)



Fig. 13 (b)

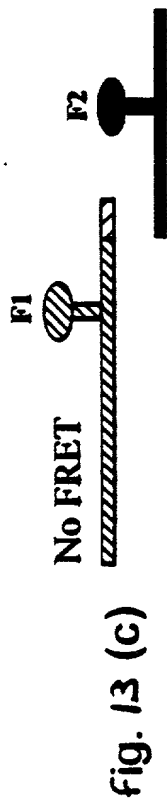


fig. 13 (c)



Fig. 13 (d)